Cancer risk factors among people living with HIV/AIDS in China: a systematic review and meta-analysis

Authors and Affiliations:

Zi-Yi $Jin^{1\,\$}$, Xing $Liu^{1\,\$}$, Ying-Ying $Ding^1$, Zuo-Feng Zhang², Na $He^{1\,*}$

- 1. Department of Epidemiology, School of Public Health, and the Key Laboratory of Public Health Safety of Ministry of Education, Fudan University, Shanghai, China;
- 2. Department of Epidemiology, Fielding School of Public Health, University of California, Los Angeles, Los Angeles, U.S.A.

*Corresponding author: Na He, MD., PhD., Professor of Epidemiology, School of Public Health of Fudan University and The Key Laboratory of Public Health Safety of Ministry of Education (Fudan University), Shanghai 200032, China. Tel/Fax: (86)-21-54237519; Email: nhe@fudan.edu.cn.

[§]Equally contributed first authors.

Supplemental Table S1. Pooled and single prevalence of cancer risk factors among persons living with HIV/AIDS and prevalence in general population by age, in China

Risk factor, demographic group	Median/Mean age range (year)	Prevalence (%) (95%CI)	I ² (%), <i>P</i> -value	N Refer		General population ^c	
					References	Age group (year)	Prevalence (%) ^d
Current smoking							
Overall ^a	35.5-44.5	36.4 (30.8-42.1)	94.7, < 0.001	15 14-21,27,28,30,32,35,36,39]		18-44	27.7
	48.6-59.8	50.5 (35.0-66.1)	94.9, < 0.001	4 [31,34,37,	38]	45-59	31.4
						60-	25.2
Female	34.0-44.5	3.4 (2.2-4.6)	0.0, 0.709	5 [17-20, 26]	18-44	1.6
						45-59	2.9
						60-	5.0
Male ^b	32.9-44.5	63.2 (39.7-86.8)	98.9, < 0.001	5 [17-20, 25]	18-44	52.5
						45-59	58.9
						60-	46.5
Current Drinking							
Overall	35.5-40.2	28.4 (19.5-37.3)	98.9, < 0.001			18-44	29.5
	48.6-54.6	37.8 (20.2-55.3)	97.9, 0.000	5 [34,37,38,	41,45]	45-59	31.1
						60-	22.4
Female	38.1-44.5	3.3 (1.2-5.4)	67.8, 0.045	3 [17,19,20]		18-44	9.5
						45-59	10.2
						60-	7.6
Male	32.9-44.5	26.9 (18.5-35.4)	91.8, 0.000	5 [17-20,25]		18-44	48.5
						45-59	51.3
						60-	37.9
Overweight and obesi	ity						
Overall	34.0-42.1	18.3 (9.7-27.0)	94.4, < 0.001	5 [23,32,53,	54]	18-44	37.6
	49.0	35.6 (29.8-41.4)		1 [34]		45-59	51.9
						60-	44.8
Hepatitis B virus infe	ction (HBsAg)						
Overall	32.6-39.7	11.4 (8.6-14.1)	95.9, <0.001	14 [59,60,62,	65,79,80,81,84,85,87,88,90,91,94	1-19	1.0-5.4
	41.0-43.2	17.6 (12.1-23.1)	94.3, < 0.001	5 [40,82,89,	92,93]	20-29	10.5
						30-39	8.6
						40-49	8.5
						50-59	8.9
Hepatitis C virus infe	ction						
Overall	29.1-43.2	29.1 (23.6-34.5)	99.5, < 0.001	31 [40,61-73,	81-97]	1-24	0.09-0.41
						25-44	0.53-0.65
						45-59	0.70-0.83
Female	29.1-40.0	29.9 (23.2-36.6)	98.4, < 0.001	16 [55-57,61-	74]	1-24	0.07-0.29
						25-44	0.48-0.74
						45-59	0.67-0.75

Male	29.1-40.0	47.1 (32.2-62.0)	99.8, < 0.001	15 [56,57,61-74]	1-24	0.08-0.58							
					25-44	0.42-0.76							
					45-59	0.73-0.99							
Human papillomavirus infection													
Cervical													
Any type	34.0-41.0	43.9 (39.9-47.9)	0.0, 0.835	2 [26,101]	15-59	9.9-27.5							
High-risk types	34.0-41.0	38.7 (35.2-42.1)	0.4, 0.836	3 [26,100,101]	15-19	30.55							
					20-29	22.17							
					30-39	19.71							
					40-49	20.55							
					50-60	23.3							
Anal													
Any type, Male	32.9	83.0 (78.2-87.9)	-	1 [25]	25-65	17.8							
High-risk, Male	32.9	64.3 (58.2-70.5)	-	1 [25]	25-65	6.4							
Human herpes virus 8													
Overall, Sera	31.4-42.0	14.9 (12.4-17.4)	0.0, 0.564	2 [19,112]	-	11.3							

^a 'Overall' means PLWHA were not restricted by sex or HIV transmission category.

^b 'Male' means PLWHA were not restricted by HIV transmission category.

^c The reference for each cancer risk factor is the same with that indicated in table 3, respectively.

^d Some of the prevalence are presented as a range for combined age groups.